

A World in Transition – J.P. Morgan's Role in the Path to Net Zero

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Given the global sense of urgency, we see growing momentum among companies, consumers, and regulators to focus on climate solutions



Shifting Consumer and Employee Preferences

8 in 10 consumers are more likely to buy a product if it is labelled sustainable ¹



Commitment in Corporate Pledges

Two-thirds of Fortune 500 companies have set significant climate commitments²



Policy and Regulatory Changes

About 78% of global GDP is driven by key policy agreements³ such as the Paris Agreement, the European Recovery Plan, and more recently the U.S. Inflation Reduction Act \$

Macro Tailwinds and Return Potential

\$4 trillion per year needs to be invested in renewable energy up until 2030 to be able to reach net zero emissions by 2050⁴

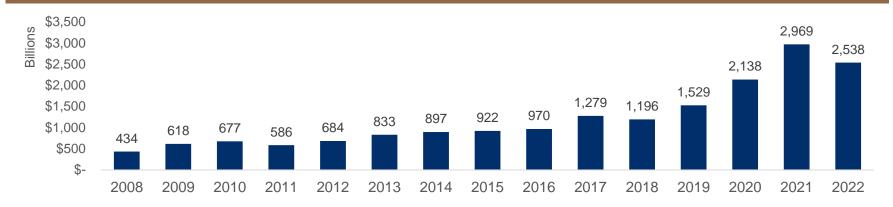
¹ GreenPrint Survey as of March 2021.

² Climate Impact Partners, "Markers of Real Climate Action in the Fortune Global 500", September 2023.

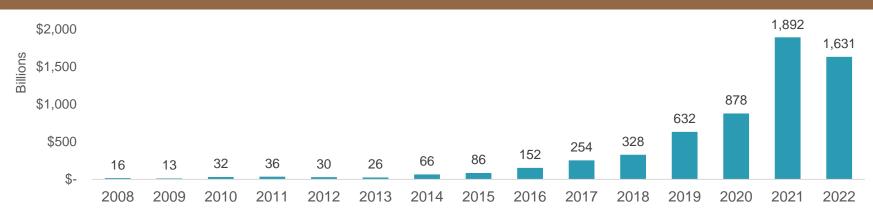
- ³ S&P Global Market Intelligence "Path to net-zero: Stakeholders demand action on ambitions as pledges swell" December 2021.
- ⁴ Climate Finance Markets and Real Economy, December 2020.

In recent years, we have seen significant growth in sustainable investment funds and ESG debt issuance

GLOBAL SUSTAINABLE FUND UNIVERSE – ASSETS UNDER MANAGEMENT OVER TIME (\$BN)



GLOBAL ESG DEBT - ISSUANCE OF GREEN, SOCIAL, AND SUSTAINABILITY BONDS AND LOANS (\$BN)



Source: Morningstar, as of October 2023. Sustainable funds identified by prospectus information. Bloomberg, as of October 2023. ESG debt identified by use of proceeds designation.

Our approach to environmental sustainability is guided by three pillars

JPMorgan Chase helps our clients navigate the challenges and realize the economic opportunities of the transition to a low carbon economy



Scaling green solutions

As a global financial institution, we have an important role to play by providing financing, strategic advice and other services to clients who are working to create and implement solutions

MOBILIZING CAPITAL FOR CLIMATE ACTION

Developing solutions to advance the transition to a low-carbon economy will require significant capital

 In 2021, we established a \$2.5T Sustainable Development Target, which includes an aim to finance and facilitate \$1T toward green initiatives that support climate action by the end of 2030

PROVIDING SUSTAINABLE SOLUTIONS TO CONSUMERS AND INVESTORS Our global and diversified franchise allows us to offer sustainability-focused financial options to various customers

 Sustainable Investing: We work with clients to build and implement sustainable investing strategies in our Asset and Wealth Management line of business

Aiming to finance \$1T in green initiatives by 2030

Through 2022, we have financed and facilitated \$176B towards this target, helping to support climate action, clean energy, and sustainable resource management

CASE STUDIES: SUPPORTING OUR CLIENTS IN ACTION



Scaling Green and Innovative Solutions

- Client: Appaloosa Solar Project
- JPMC Role: Coordinated lead arranger
- Size: \$267M project finance loans¹
- Expected Outcome:
 - Support the construction and operations of the Appaloosa Solar Project in Utah
 - Create ~250 jobs for its construction and generate meaningful property tax revenue over 35 years



Supporting Ecosystem Protection for Nature and People

- Client: The Nature Conservancy ("TNC")
- JPMC Role: Lead underwriter
- Size: \$350M green bond
- Expected Outcome:
 - Help TNC achieve its 2030 goals, including:
 - Avoiding or sequestering 3B metric tons of carbon dioxide equivalent
 - Conserving 650M hectares of healthy land

¹ JPMC committed \$142M to a series of syndicated project finance loans totaling \$267M

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We work with clients to build and implement sustainable investing solutions in our Asset and Wealth Management line of business

"Sustainable investing" is an umbrella term we use to describe investment approaches that incorporate financial as well as social and environmental objectives.

To help clarify implementation options, we define four approaches that can be used alone or in concert in portfolios to help clients achieve/meet their goals.

SUSTAINABLE INVESTING ENCOMPASSES A SPECTRUM OF APPROACHES



VALUES-BASED INVESTING

Reflecting your values through an investment strategy that avoids or increases exposures to specific companies, sectors or business practices.



ESG

Actively considering environmental, social and governance (ESG) factors as a key component of the implementation and portfolio construction investment decisions.



THEMATIC INVESTING

Investing in companies that target specific social or environmental issues, such as water, clean energy and gender diversity.



IMPACT INVESTING

Investing in companies, organizations and funds with the intention of generating positive social and/or environmental impact alongside financial return.

There are a variety of ways for clients to invest in climate solutions

Our Private Bank Sustainable Investing team has developed a 3R framework to climate investing

3 R's	Focus Areas	How do these approaches work?	Investment Examples
REDUCE	Energy Supply Decarbonization	Renewable sources of energy and storage	Renewable energy generation
	Energy Demand Reduction	 Increase efficiency of energy use 	Improved engine efficiency
	Process Transformation	 Develop alternatives to non-energy based emissions from chemistry and biology 	 Technology to decarbonize cement, industrials, agriculture, waste
L REMOVE	Natural Carbon Sequestration	 Acceleration and enhancement of processes that naturally sequester atmospheric & oceanic CO2 at-scale 	Forestry, agriculture, aquaculture
	Mechanical Carbon Removal	 Industrial processes that use mechanical means to fix and sequester carbon 	 Carbon removal technologies that draw carbon from the atmosphere or ocean
RETROFIT	Water Efficiency / Enhancement	 Solutions that increase fresh water supply 	Water recycling and treatment
	Food / Agriculture Reinvention	 Innovations that enable food production through climate change shocks 	Agriculture technology
	The Built Environment	 Protection of the built environment against climate extremes and change 	Flood protection

Some examples: companies that are addressing urgent climate and biodiversity challenges



What do they do?

Notpla uses brown seaweed to produce biodegradable – and edible – packaging and films, aiming to replace single-use plastics.

What's the impact?

In 2022, sales of Notpla products displaced 4.4 tonnes of plastic products, and avoided 19 tonnes of CO2



Sources: Notpla, Twelve, Campbell Global, as of August 2023. All companies referenced are shown for illustrative purposes only, and are not intended as a recommendation or endorsement by J.P. Morgan in this context.



What do they do?

Twelve uses captured CO2 emissions to *electrochemically* make the fuels, chemicals, and materials that are currently made by refining fossil fuels.

What's the impact?

Unique technology that has the ability to eliminate up to 10% of global emissions by transforming existing supply chains





What do they do?

Campbell Global (CG) is a pioneer in timberland investing, focused on acquiring high quality, mature commercial forest lands. These actively managed forests serve as natural carbon sinks and produce renewable materials, storing carbon in wood products.

What's the impact?

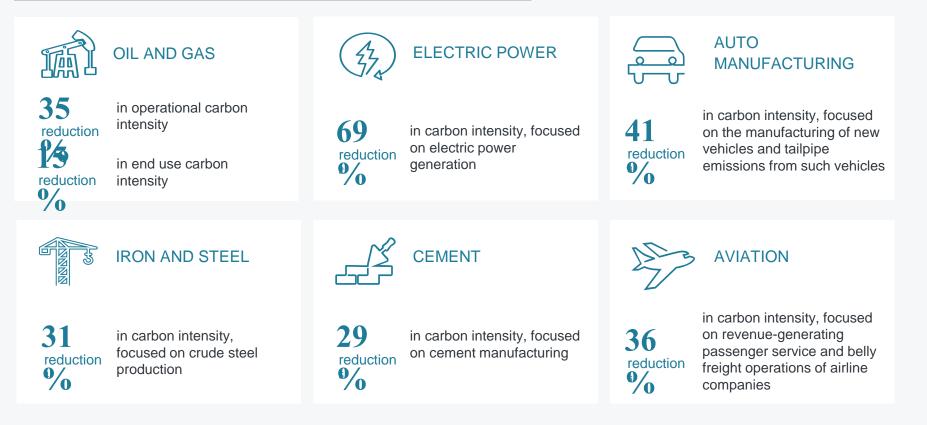
 In 2022, the net carbon retained by CG's managed acreage was nearly
 2.4 million tonnes of CO2 – equivalent to the yearly emissions of over 530,000 passenger vehicles



Meeting needs responsibly: targeting our financed emissions

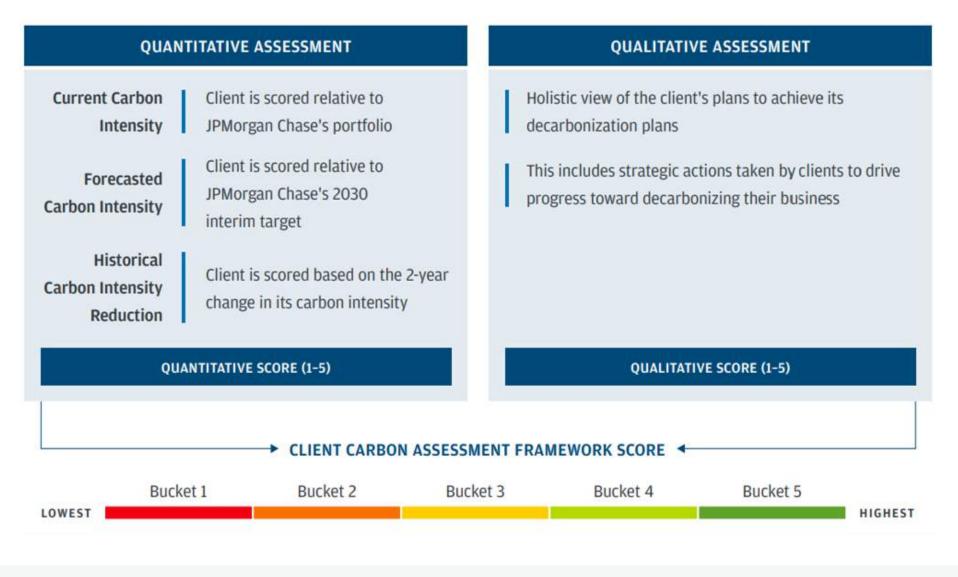
We chose to address these sectors given their contribution to total global emissions and in consideration of the technical and economic maturity of their available decarbonization pathways

2030 TARGETS FOR EMISSIONS INTENSITY REDUCTION BY SECTOR



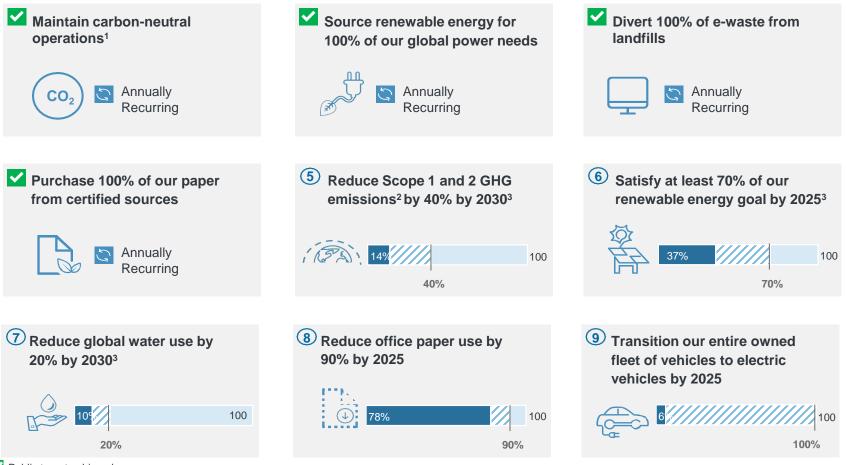
¹ Measured in g CO₂e/MJ and g CO₂/MJ using a 2019 baseline for operational and end use carbon intensity, respectively; ² Measured in kg CO₂/MWh using a 2019 baseline; ³ Measured in g CO₂e/km using a 2019 baseline; ⁴ Measured in t CO₂e/t crude steel using a 2020 baseline; ⁵ Measured in kg CO₂e/t cementitious product using a 2020 baseline; ⁶ Measured in g CO₂/RTK using a 2021 baseline

Our Carbon Assessment Framework helps assess how in-scope transactions may affect progress toward our portfolio-level targets



Minimizing our operational impact: 2022 progress on our targets

A key component of our approach to sustainability is managing our GHG footprint by reducing our direct and indirect emissions, which stem primarily from the operation of our more than 6,000 offices



Public target achieved

¹Using EACs and carbon credits to help us achieve neutrality; in 2021 we purchased 1,584,337 EACs & 129,527 carbon credits

²Scope 1 (direct) GHG emissions from building operations and company-owned aircraft and vehicles, and Scope 2 (indirect) GHG emissions from purchased electricity ³With on-site renewable energy and off-site long-term renewable energy contracts

Carbon markets are an important consideration for decarbonization

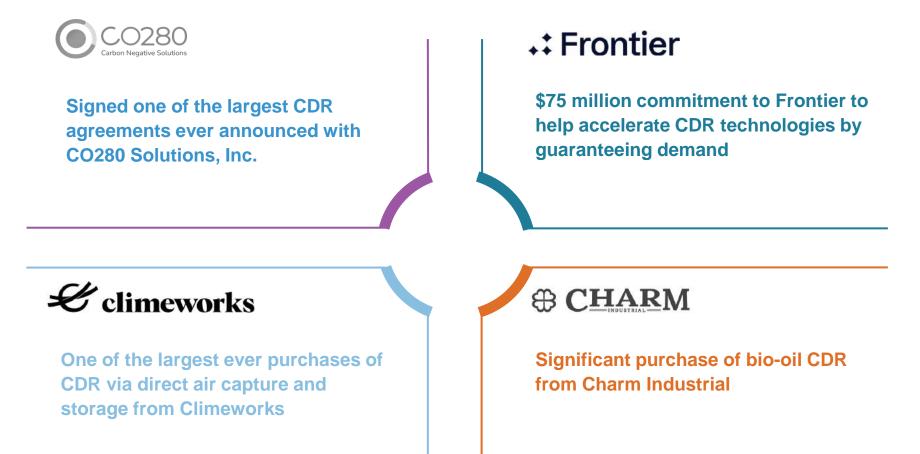


and government subsidies expand.

¹BloombergNEF, as of May 2022. Ecosystem Marketplace Press Release, as of September 2021; ²Includes all non-Air Resource Board offsets retired in American Carbon Registry, Climate Action Reserve, Gold Standard, and Verra registries, as of January 2023.; ³Includes direct air capture (DAC) and carbon sequestration and storage (CCS)

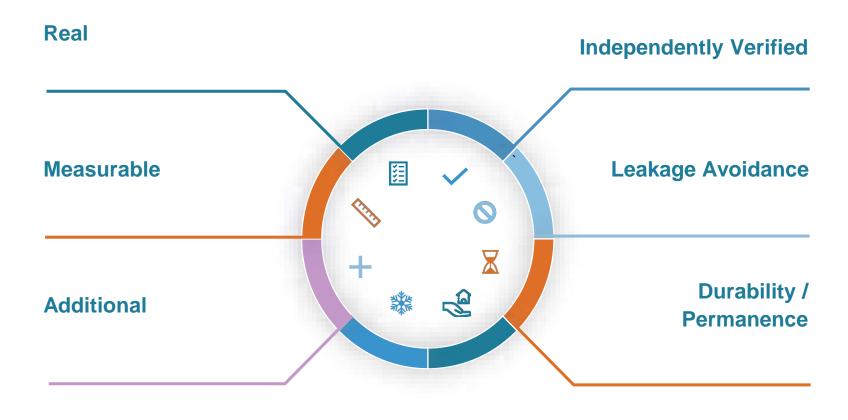
In May 2023, JPMorgan Chase announced long-term agreements to purchase over \$200 million in high-quality carbon dioxide removal

These agreements intend to remove and store 800,000 metric tons of carbon dioxide equivalent (mtCO₂e) from the atmosphere and will support scaling up emerging carbon dioxide removal (CDR) technologies



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JPMorgan Chase has defined a set of core principles that guide the firm's engagement with the voluntary carbon market



Unique & Traceable

Climate Equity

Note: these principles and supplemental considerations are provided for informational purposes only, based on certain assumptions, and subject to uncertainties. We make no guarantee and provide no assurance that the carbon credits we or our clients buy, sell, trade or otherwise transact in, whether in the past or in the future, adhere to or follow any or all of these principles and considerations, in whole or in part

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